EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	185	cumene adj oxidation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:41
L2	4071	butylbenzene	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:41
L3	23	L1 and L2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:41
L4	23102	MEK	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:41
L5	274328	$peroxide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:41
L6	74	L2 and L4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 09:24
L7	53	L6 and L5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:41
L8	7	US-2632026-$.DID. OR US-2632773-$.DID. OR US-2757209-$.DID. OR US-4358618-$.DID. OR US-5254751-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 06:27
L9	8	US-5298667-$.DID. OR US-5304684-$.DID. OR US-5530166-$.DID. OR US-6486365-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:41
L10	15	L8 or L9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:29
L11	2	"5398667".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:43

EAST Search History

L12	2	"5298667".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 05:43
L13	2	"2904592".PN.	USPAT; USOCR	OR	ON	2007/02/28 05:44
L14	2	"2957921".PN.	USPAT; USOCR	OR	ON	2007/02/28 05:44
L15	1	"4408083".PN.	USPAT; USOCR	OR	ON	2007/02/28 05:45
L16	1	"4567304".PN.	USPAT; USOCR	OR	ON	2007/02/28 05:45
L17	10	"2300903"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 06:41
L18	2	("6307112").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/28 06:48
L19	9	("1088807").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/28 07:05
L20	10	"2182802"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 07:07
L21	8	"5304684"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 07:07
L22	2	("5304684").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/28 07:07
L23	1726426	continuous	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 09:25
L24	19	l6 and l23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 09:25
L25	2	"5298667"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 09:53

EAST Search History

L26	0	l23 and l25	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:12
L27	162	(568/754).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/28 10:13
L28	381	(568/716).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/28 10:15
L29	297	(568/385).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/28 10:15
L30	0	("l27orl28").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/28 10:15
L31	542	l27 or l28	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:15
L32	31	l29 and l31	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:17
L33	81816	methyl adj ethyl adj ketone	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:17
L34	2	l32 and l33	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:18
L35	2	l4 and l31	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:18
L36	11	l23 and l32	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:30
L37	1882867	series	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:31

EAST Search History

L38	9	l32 and l37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/28 10:31

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NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 6	NOV 10	CA/CAplus F-Term thesaurus enhanced
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NEWS 8	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAplus patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 23	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 26	FEB 13	CASREACT coverage to be extended
NEWS 27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 28	Feb 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 29	Feb 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 30	Feb 26	MEDLINE reloaded with enhancements
NEWS 31	Feb 26	EMBASE enhanced with Clinical Trial Number field
NEWS 32	Feb 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 33	Feb 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 34	Feb 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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NEWS LOGIN Welcome Banner and News Items

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 NEWS X25       X.25 communication option no longer available

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FILE 'HOME' ENTERED AT 06:57:34 ON 28 FEB 2007

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STRUCTURE FILE UPDATES:   27 FEB 2007  HIGHEST RN 923673-01-2
DICTIONARY FILE UPDATES:  27 FEB 2007  HIGHEST RN 923673-01-2

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predicted properties as well as tags indicating availability of
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http://www.cas.org/ONLINE/UG/regprops.html

=> e sec-butylbenzene/cn
E1            1     SEC-BUTYLASTATINE/CN
E2            1     SEC-BUTYLAZINE/CN
E3            1 --> SEC-BUTYLBENZENE/CN
E4            1     SEC-BUTYLBENZENE CATION RADICAL/CN
E5            1     SEC-BUTYLBENZENE CATION(2+)/CN
E6            1     SEC-BUTYLBENZENE COMPOUND WITH MERCURIC BROMIDE (1:1)/CN
E7            1     SEC-BUTYLBENZENE HYDROPEROXIDE/CN
E8            1     SEC-BUTYLBENZENE-ETHYLBENZENE-TOLUENE MIXTURE/CN
E9            1     SEC-BUTYLBENZOQUINONE/CN
E10           1     SEC-BUTYLBIS(2-(DICYCLOHEXYLPHOSPHINO)ETHYL)AMINE/CN
E11           1     SEC-BUTYLBIS(2-(DIPHENYLPHOSPHINO)ETHYL)AMINE/CN
E12           1     SEC-BUTYLBIS(3-HYDROXYPROPYL)PHOSPHINE OXIDE/CN

=> e3
L1            1 SEC-BUTYLBENZENE/CN

=> d l1
```

```
L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   135-98-8  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Benzene, (1-methylpropyl)- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Benzene, sec-butyl- (8CI)
OTHER NAMES:
CN   (±)-sec-Butylbenzene
CN   (α-Methylpropyl)benzene
CN   (1-Methylpropyl)benzene
CN   (RS)-2-Phenylbutane
CN   2-Phenylbutane
CN   NSC 8466
CN   sec-Butylbenzene
DR   36383-15-0
MF   C10 H14
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS,
       CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CSCHEM, DETHERM*,
       ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB,
       IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, RTECS*, SPECINFO,
       TOXCENTER, ULIDAT, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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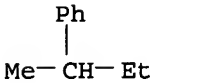


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

            1525 REFERENCES IN FILE CA (1907 TO DATE)
               5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            1527 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

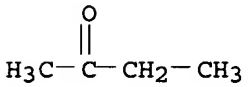

=> e methyl ethyl ketone/cn
E1            1     METHYL ETHYL HEXANE-1,6-DICARBAMATE/CN
E2            1     METHYL ETHYL HYDROXYETHYL CELLULOSE/CN
E3            1 --> METHYL ETHYL KETONE/CN
E4            1     METHYL ETHYL KETONE 1,3-DIMETHYLBUTYLHYDRAZONE/CN
E5            1     METHYL ETHYL KETONE 2,4-DINITROPHENYLHYDRAZONE/CN
E6            1     METHYL ETHYL KETONE AZINE/CN
E7            1     METHYL ETHYL KETONE BENZYLHYDRAZONE/CN
E8            1     METHYL ETHYL KETONE CYANOHYDRIN/CN
E9            1     METHYL ETHYL KETONE CYCLOHEXYLHYDRAZONE/CN
E10           1     METHYL ETHYL KETONE DIBUTYLMERCAPTOLE/CN
E11           1     METHYL ETHYL KETONE ENOL ACETATE/CN
E12           1     METHYL ETHYL KETONE HYDRAZONE/CN

=> e3
L2            1 "METHYL ETHYL KETONE"/CN

=> d l2

L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   78-93-3  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   2-Butanone (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
```

CN 3-Butanone
CN Butanone
CN Ethyl methyl ketone
CN MEK
CN Methyl ethyl ketone
DR 135311-02-3
MF C4 H8 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
      (*File contains numerically searchable property data)
    Other Sources: DSL**, EINECS**, TSCA**
      (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25551 REFERENCES IN FILE CA (1907 TO DATE)
  265 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
25616 REFERENCES IN FILE CAPLUS (1907 TO DATE)
   10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

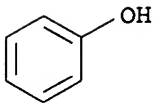
```
=> e phenol/cn
E1            1      PHENOHYDROXYDINAPHTHOFUCHSONEDICARBOXYLIC ACID/CN
E2            1      PHENOKOLL/CN
E3            1  --> PHENOL/CN
E4            1      PHENOL (COMPD. WITH IMINOBIS(PHENYLMERCURY) (1:1))/CN
E5            1      PHENOL (POLYMER), 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WIT
                     H (CHLOROMETHYL)OXIRANE, DI-2-PROPENOATE, POLYMER WITH 2-CAR
                     BOXYETHYL 2-PROPENOATE, 2-((3-HYDROXY-2,2-BIS(((1-OXO-2-PROP
                     ENYL)OXY)METHYL)PROP/CN
E6            1      PHENOL B-D-GLUCURONIDE/CN
E7            1      PHENOL 102/CN
E8            1      PHENOL 1:1 COMPLEX WITH DIETHYL SULFIDE/CN
E9            1      PHENOL 1:1 COMPLEX WITH DIMETHYLACETAMIDE/CN
E10           1      PHENOL 2-HYDROXYLASE/CN
E11           1      PHENOL 2-HYDROXYLASE COMPONENT B (OCEANOBACILLUS IHEYENSIS S
                     TRAIN HTE831 GENE OB2870)/CN
E12           1      PHENOL 2-MONOOXYGENASE/CN

=> e3
L3            1 PHENOL/CN

=> d l3

L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   108-95-2  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Phenol (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   Benzenol
CN   Carbolic acid
CN   ENT 1814
```

CN Hydroxybenzene
CN Monohydroxybenzene
CN Monophenol
CN NSC 36808
CN Oxybenzene
CN Phenic acid
CN Phenyl alcohol
CN Phenyl hydrate
CN Phenyl hydroxide
CN Phenylic acid
CN Phenylic alcohol
DR 8002-07-1, 14534-23-7, 50356-25-7
MF C6 H6 O
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PATDPASPC, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



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75237 REFERENCES IN FILE CA (1907 TO DATE)
10699 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
75415 REFERENCES IN FILE CAPLUS (1907 TO DATE)
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

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FILE LAST UPDATED: 27 Feb 2007 (20070227/ED)

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http://www.cas.org/infopolicy.html

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=> l1/rct
          1527 L1
       2943022 RCT/RL
L4          252 L1/RCT
                (L1 (L) RCT/RL)

=> l2/prep
         25616 L2
       4366489 PREP/RL
L5        2188 L2/PREP
                (L2 (L) PREP/RL)

=> l4 and l5
L6          13 L4 AND L5

=> oxygen
        759443 OXYGEN
          7047 OXYGENS
L7      764355 OXYGEN
                (OXYGEN OR OXYGENS)

=> dl8 1-13 ti
            16 DL8
       9032513 1
        855648 13
        355005 TI
          1207 TIS
        355903 TI
                (TI OR TIS)
L8           0 DL8 1-13 TI
                (DL8(W)1(W)13(W)TI)

=> d 16 1-13 ti

L6   ANSWER 1 OF 13  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Production of bisphenol-A and co-producing methyl ethyl ketone

L6   ANSWER 2 OF 13  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Process for producing phenol and methyl ethyl ketone

L6   ANSWER 3 OF 13  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Manufacture of phenol, acetone and methyl ethyl ketone

L6   ANSWER 4 OF 13  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Oxidative and bond-cleavage process for the preparation of phenol, methyl
     ethyl ketone and acetone from mixtures of secondary-butylbenzene and
     cumene

L6   ANSWER 5 OF 13  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Process for producing phenol and methyl ethyl ketone

L6   ANSWER 6 OF 13  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Process for producing phenol and methyl ethyl ketone

L6   ANSWER 7 OF 13  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Preparation of phenol and methyl ethyl ketone by oxidation of sec-benzene

L6   ANSWER 8 OF 13  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Preparation of phenol and methyl ethyl ketone from sec-butylbenzene
```

L6 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Process for simultaneous preparation of methyl ethyl ketone and phenol

L6 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Phenol, acetone, and methyl ethyl ketone from sec-butylbenzene and cumene hydroperoxide

L6 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Electrochemical oxidation of secondary butylbenzene on a platinum electrode in the presence of manganese sulfate

L6 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Phenol and 2-butanone from sec-butylbenzene

L6 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI sec-Butylbenzene hydroperoxide for making phenol, acetophenone, and methyl ethyl ketone

=> d l6 1-13 ti fbib abs

L6 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Production of bisphenol-A and co-producing methyl ethyl ketone
AN 2006:149630 CAPLUS
DN 144:213173
TI Production of bisphenol-A and co-producing methyl ethyl ketone
IN Smith, Charles M.; Davoren, Dennis J.; Stanat, Jon E. R.
PA Exxonmobil Chemical Patents Inc., USA; Exxonmobil Chemical Limited
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006015825	A1	20060216	WO 2005-EP8554	20050805

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

US 2004-601755P P 20040813

AB A process for producing bisphenol-A and co-producing Me Et ketone comprises alkylating benzene with a C3 alkylating agent in a first reaction zone to produce cumene and alkylating benzene with a C4 alkylating agent in a second reaction zone sep. from said first reaction zone to produce secbutylbenzene. The cumene and sec-butylbenzene are then oxidized, either sep. or as a mixture, to produce the corresponding hydroperoxides and the hydroperoxides are cleaved, either sep. or as a mixture, to produce phenol, acetone and Me Et ketone. The phenol, Me Et ketone and acetone are separated and at least part of the acetone and phenol are reacted to produce bisphenol-A.
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Process for producing phenol and methyl ethyl ketone
AN 2006:147702 CAPLUS

DN 144:234975
TI Process for producing phenol and methyl ethyl ketone
IN Cheng, Jane Chi-Ya; Buchanan, John S.; Levin, Doron; Steckel, Michael A.; Dakka, Jihad M.; Stokes, James P.; Robbins, John L.; Stanat, Jon E. R.; Smith, Charles M.; Santiesteban, Jose Guadalupe
PA Exxonmobil Chemical Patents, Inc., USA; Exxonmobil Chemical Limited
SO PCT Int. Appl., 43 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006015826	A1	20060216	WO 2005-EP8557	20050805
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
			US 2004-601661P	P 20040813

OS CASREACT 144:234975
AB A process for producing phenol and Me Et ketone comprises contacting benzene with a C4 alkylating agent under alkylation conditions with catalyst comprising a β-zeolite or a mol. sieve having an X-ray diffraction pattern including d-spacing maxima at 12.4 ± 0.25, 6.9 ± 0.15, 3.57 ± 0.07 and 3.42 ± 0.07 Angstrom to produce an alkylation effluent comprising sec-butylbenzene (I). I is then oxidized to produce a hydroperoxide and the hydroperoxide is decomposed to produce phenol and Me Et ketone. Using this catalyst provided I substantially free of isobutylbenzene and tert-butylbenzene byproducts.
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Manufacture of phenol, acetone and methyl ethyl ketone
AN 2001:246557 CAPLUS
DN 134:282462
TI Manufacture of phenol, acetone and methyl ethyl ketone
IN Pompetzki, Werner; Gerlich, Otto; Kleinloh, Werner
PA Phenolchemie G.m.b.H. & Co. K.-G., Germany
SO Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1088809	A1	20010404	EP 2000-117403	20000811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
			DE 1999-19946888	A 19990930
DE 19946888	A1	20010405	DE 1999-19946888	19990930
BG 104775	A	20010928	BG 2000-104775	20000919
			DE 1999-19946888	A 19990930
JP 2001151710	A	20010605	JP 2000-294173	20000927
			DE 1999-19946888	A 19990930
CN 1290681	A	20010411	CN 2000-129071	20000929
			DE 1999-19946888	A 19990930

AB The Hock fragmentation of cumene hydroperoxide (I) produces equimol. amts. of PhOH and Me2CO but the fragmentation of hydroperoxides obtained from mixts. of I containing ≤25% sec-butylbenzene gives the mixts. of the title compds. where the ratio of individual compds. can be regulated. For example, oxidizing a mixture of 80% cumene and 20% EtCHMePh for 2.5 h at 132° with O, concentrating the products in vacuo and subjecting the residue to heating at 50° in the presence of 2000 ppm H2SO4 gave the title compds. with the fragmentation yield >95% for Me2CO, 92.3 for EtCOMe and >99% for PhOH.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN

TI Oxidative and bond-cleavage process for the preparation of phenol, methyl ethyl ketone and acetone from mixtures of secondary-butylbenzene and cumene

AN 2001:246555 CAPLUS

DN 134:266096

TI Oxidative and bond-cleavage process for the preparation of phenol, methyl ethyl ketone and acetone from mixtures of secondary-butylbenzene and cumene

IN Pompetzki, Werner; Gerlich, Otto; Kleinloh, Werner

PA Phenolchemie G.m.b.H. & Co. K.-G., Germany

SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1088807	A1	20010404	EP 2000-117401	20000811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
			DE 1999-19946887 A	19990930
DE 19946887	A1	20010405	DE 1999-19946887	19990930
BG 104776	A	20010531	BG 2000-104776	20000919
			DE 1999-19946887 A	19990930
JP 2001097901	A	20010410	JP 2000-294583	20000927
			DE 1999-19946887 A	19990930
BR 2000004487	A	20010529	BR 2000-4487	20000927
			DE 1999-19946887 A	19990930
CN 1290682	A	20010411	CN 2000-129072	20000929
			DE 1999-19946887 A	19990930

OS CASREACT 134:266096

AB Phenol, Me Et ketone, and acetone are prepared in high yield and selectivity by the oxidation of mixts. of secondary-butylbenzene and cumene (the cumene content in the mixture is 3-15%) with oxygen-containing gases (e.g., air) to form a mixture of secondary-butylbenzene hydroperoxide and cumene hydroperoxide which are subjected to bond cleavage in the presence of an acid (e.g., sulfuric acid) catalyst.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN

TI Process for producing phenol and methyl ethyl ketone

AN 1994:486255 CAPLUS

DN 121:86255

TI Process for producing phenol and methyl ethyl ketone

IN Nishida, Hiroshi; Kimura, Kazuo; Hamada, Shouji; Toma, Masaaki; Nagaoka, Hirooki

PA Sumitomo Chemical Company, Ltd., Japan

SO U.S., 7 pp.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 5304684	A	19940419	US 1993-86896		19930707
				JP 1992-179711	A	19920707
				JP 1992-344333	A	19921224
				JP 1993-4493	A	19930305
	JP 06072921	A	19940315	JP 1992-344333		19921224
	JP 3367056	B2	20030114			
				JP 1992-179711	A1	19920707

PATENT FAMILY INFORMATION:

FAN 1994:438045

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 578194	A2	19940112	EP 1993-110771		19930706
	EP 578194	B1	19980204			
	R: BE, DE, FR, GB, IT, NL					
				JP 1992-179711	A	19920707
				JP 1992-344333	A	19921224
				JP 1993-44923	A	19930305
	JP 06072921	A	19940315	JP 1992-344333		19921224
	JP 3367056	B2	20030114			
				JP 1992-179711	A1	19920707
	JP 06256238	A	19940913	JP 1993-44923		19930305
	CA 2099058	A1	19940108	CA 1993-2099058		19930623
				JP 1992-179711	A	19920707
				JP 1992-344333	A	19921224
				JP 1993-44923	A	19930305

AB Sec-butylbenzene hydroperoxide obtained by oxidizing sec-butylbenzene is decomposed into phenol and MEK, a resulting liquid comprising MEK as the main component is washed with an aqueous alkali solution to remove carboxylic acids, carboxylic acid esters, unsatd. ketones, and aldehydes, and the washed liquid is further subjected to neutralization, dehydration, and distillation MEK can be obtained which has a high quality with regard to purity and potassium permanganate fading.

L6 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Process for producing phenol and methyl ethyl ketone
AN 1994:438045 CAPLUS
DN 121:38045
TI Process for producing phenol and methyl ethyl ketone
IN Nishida, Hiroshi; Kimura, Kazuo; Hamada, Shouji; Toma, Masaaki; Nagaoka, Hirooki
PA Sumitomo Chemical Co., Ltd., Japan
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 578194	A2	19940112	EP 1993-110771		19930706
	EP 578194	B1	19980204			
	R: BE, DE, FR, GB, IT, NL					
				JP 1992-179711	A	19920707
				JP 1992-344333	A	19921224
				JP 1993-44923	A	19930305
	JP 06072921	A	19940315	JP 1992-344333		19921224
	JP 3367056	B2	20030114			
				JP 1992-179711	A1	19920707
	JP 06256238	A	19940913	JP 1993-44923		19930305
	CA 2099058	A1	19940108	CA 1993-2099058		19930623
				JP 1992-179711	A	19920707
				JP 1992-344333	A	19921224

				JP 1993-44923	A 19930305

PATENT FAMILY INFORMATION:

FAN 1994:486255

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5304684	A	19940419	US 1993-86896	19930707
				JP 1992-179711 A	19920707
				JP 1992-344333 A	19921224
				JP 1993-4493 A	19930305
	JP 06072921	A	19940315	JP 1992-344333	19921224
	JP 3367056	B2	20030114		
				JP 1992-179711 A1	19920707

AB Sec-Butylbenzene hydroperoxide obtained by oxidizing sec-butylbenzene is decomposed into phenol and MEK, a resulting liquid comprising MEK as the main component is washed with an aqueous alkali solution to remove carboxylic acids, carboxylic acid esters, unsatd. ketones, and aldehydes, and the washed liquid is further subjected to neutralization, dehydration, and distillation MEK prepared by this process has a high quality with regard to purity and potassium permanganate fading.

L6 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of phenol and methyl ethyl ketone by oxidation of sec-benzene
AN 1993:670797 CAPLUS
DN 119:270797
TI Preparation of phenol and methyl ethyl ketone by oxidation of sec-benzene
IN Yamauchi, Kazuhiro; Tamura, Mitsuhisa
PA Sumitomo Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05178773	A	19930720	JP 1991-344978	19911226
	JP 3089780	B2	20000918		
				JP 1991-344978	19911226

AB The title preparation involves (1) oxidation of sec-butylbenzene (I) to obtain a reaction liquid containing sec-butylbenzene hydroperoxide (II) as the main component, (2) concentration of the oxidation reaction liquid by distillation to obtain a bottoms liquid containing II as the main component and a distillate containing I as the main component from the top of the distillation column., (3) contacting the latter bottoms liquid with an acid catalyst to decompose II into phenol and MeCOEt, (4) neutralization of the resulting decomposition liquid with an aqueous alkali solution, separation of the oil and the aqueous layer, and recycling a portion of the aqueous layer to the neutralization step, (5) washing the oil layer with water, separation of the oil layer containing phenol and MeCOEt as the main components, and recycling a part or all of the aqueous layer to the neutralization step, and (6) distillation of the oil layer to sep. phenol and MeCOEt. The water-rinse step efficiently removes aliphatic acid and inorg. salts , e.g. HCO2Na, AcONa, and Na2SO4, and minimizes the content of the salts in the distillation liquid and thereby the process prevents deposition of salts in the distillation column and provides long-term operation with stability and high heat efficiency.

L6 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of phenol and methyl ethyl ketone from sec-butylbenzene

AN 1993:580528 CAPLUS
DN 119:180528
TI Preparation of phenol and methyl ethyl ketone from sec-butylbenzene
IN Iwanaga, Kiyoshi; Tamura, Mitsuhisa; Nakayama, Toshio; Usui, Masahiro; Umida, Hiroyuki; Nagaoka, Hirooki
PA Sumitomo Chemical Co., Ltd., Japan
SO Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 548986	A1	19930630	EP 1992-121983		19921224
	EP 548986	B1	19960313			
	R: BE, DE, FR, GB, IT, NL					
				JP 1991-344976	A	19911226
				JP 1991-344977	A	19911226
				JP 1992-180768	A	19920708
				JP 1992-186538	A	19920714
	JP 05178772	A	19930720	JP 1991-344977		19911226
	JP 3089779	B2	20000918			
	JP 05229972	A	19930907	JP 1992-180768		19920708
				JP 1991-344976	A1	19911226
	JP 06032750	A	19940208	JP 1992-186538		19920714
	JP 3225605	B2	20011105			
	CA 2082688	A1	19930627	CA 1992-2082688		19921112
	CA 2082688	C	20030211			
				JP 1991-344976	A	19911226
				JP 1991-344977	A	19911226
				JP 1992-180768	A	19920708
				JP 1992-186538	A	19920714
	US 5298667	A	19940329	US 1992-995971		19921223
				JP 1991-344976	A	19911226
				JP 1991-344977	A	19911226
				JP 1992-180768	A	19920708
				JP 1992-186538	A	19920714
	KR 231625	B1	19991115	KR 1992-25538		19921224
				JP 1991-344976	A	19911226

OS CASREACT 119:180528
AB The title process comprises the steps of: I) oxidizing one material selected from: A) sec-butylbenzene substantially free from Et hydroperoxide, carboxylic acids and phenol, B) sec-butylbenzene substantially free from styrenes, and C) sec-butylbenzene substantially free from methylbenzyl alc., to obtain sec-butylbenzene hydroperoxide, and II) decomposition the sec-butylbenzene hydroperoxide. Thus, oxidation of sec-butylbenzene containing 0.0084 weight% methylbenzyl alc. in air gave 12.81 weight% sec-butylbenzene hydroperoxide, whereas, similar oxidation of sec-butylbenzene containing 0.1067 weight% methylbenzyl alc. gave 5.29 weight% sec-butylbenzene hydroperoxide.

L6 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Process for simultaneous preparation of methyl ethyl ketone and phenol
AN 1991:408292 CAPLUS
DN 115:8292
TI Process for simultaneous preparation of methyl ethyl ketone and phenol
IN Unger, Thomas Alfred
PA Brazil
SO Braz. Pedido PI, 9 pp.
CODEN: BPXXDX
DT Patent
LA Portuguese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI BR 8901852 A 19901106 BR 1989-1852 19890414
BR 1989-1852 19890414

AB MEK and PhOH are simultaneously prepared by oxidation of sec-BuPh (I) with air or O, followed by cleavage of the resultant hydroperoxide PhC(OOH)(Me)Et (II). The oxidation of I is preferably done at 80-180° and 3-7 bar in the presence of alkaline salts of Pb, Sb, Sn, or Bi (<1/10,000 by weight Na ion vs. I), with a concentration of <27% II, 15-25% conversion of I, and reaction time 1-10 h. For rearrangement of II to MEK and PhOH, preferred conditions are 50-80°, anhydrous, 0.1-1.2 weight% acid in mixture, pressure <1 bar, residence time 10-40 min., and a S-containing catalyst.

L6 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Phenol, acetone, and methyl ethyl ketone from sec-butylbenzene and cumene hydroperoxide
AN 1988:74975 CAPLUS
DN 108:74975
TI Phenol, acetone, and methyl ethyl ketone from sec-butylbenzene and cumene hydroperoxide
IN Yamamoto, Minoru; Yoshino, Kenji; Sasaki, Toshiki; Mizuno, Takehisa
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 62114922	A	19870526	JP 1985-252856	19851113
			JP 1985-252856	19851113

AB Phenol, Me2CO, and MeCOEt (I) were prepared by liquid-phase oxidation of sec-BuPh (II) with mol. O-containing gas in the presence of cumene (III) or cumene hydroperoxide. Thus, mixing II and III 4 h at 120° and 5 kg/cm2-gage while bubbling in air and adding 2% aqueous NaOH to keep the solution from being acidic, concentration, and heating with H2SO4 in Me2CO 30 min at ≤50° gave PhOH, Me2CO, and I each in 95% yield.

L6 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Electrochemical oxidation of secondary butylbenzene on a platinum electrode in the presence of manganese sulfate
AN 1980:84830 CAPLUS
DN 92:84830
TI Electrochemical oxidation of secondary butylbenzene on a platinum electrode in the presence of manganese sulfate
AU Solomin, A. V.; Antropova, V. I.; Komarova, E. N.
CS USSR
SO Issled. Geterogen. Sistem., Alma-Ata (1979) 180-2
From: Ref. Zh., Khim. 1979, Abstr. No. 22B1481
DT Journal
LA Russian
AB Title only translated.

L6 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI Phenol and 2-butanone from sec-butylbenzene
AN 1977:189486 CAPLUS
DN 86:189486
TI Phenol and 2-butanone from sec-butylbenzene
IN Mikami, Ichiro; Danno, Sadao; Uchida, Izuhiko; Tazaki, Yasutaka; Kugimoto, Junichi; Okahara, Etsuo
PA Ube Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 51133239	A	19761118	JP 1975-55477	19750513
				JP 1975-55477 A	19750513

AB PhOH and MeCOEt were prepared from MeEtCHPh by liquid-phase oxidation with O in the presence of HBr. Thus, 4.28 g MeEtCHPh in 1,2-dichloroethane was placed under 1 atm HBr and 1.84 atm HCl in an autoclave and treated with O at 55° for 15 min to give 48.1% PhOH and 42.8% MeCOEt with 2.27 g MeEtCHPh conversion.

L6 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
TI sec-Butylbenzene hydroperoxide for making phenol, acetophenone, and methyl ethyl ketone
AN 1973:515304 CAPLUS
DN 79:115304
TI sec-Butylbenzene hydroperoxide for making phenol, acetophenone, and methyl ethyl ketone
IN Wolf, Philip Frank
PA Union Carbide Corp.
SO Ger. Offen., 23 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2300903	A1	19730802	DE 1973-2300903	19730109
				US 1972-216788 A	19720110
	JP 48080524	A	19731029	JP 1973-5001	19730109
				US 1972-216788 A	19720110
	FR 2182802	A1	19731214	FR 1973-599	19730109
				US 1972-216788 A	19720110
	FR 2183296	A1	19731214	FR 1973-22292	19730619
				US 1972-216788 A	19720110

AB EtCMePhOOH was prepared by oxidation of EtCHMePh, containing <1% Me2CHCH2Ph and essentially free of S and olefins, by an O-containing gas at 75-100°. MeCOPh and EtCMePhOH were obtained as significant by-products.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	75.29	97.73

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-10.14	-10.14

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:09:34 ON 28 FEB 2007